Wellis®

OceanLine

USER MANUAL

IBIZA
SPA SYSTEM

- 1x 3HP Hydromassage pump
- Energy-efficient LAING circulation pump
- 36 jets
- Hot air blower pump
- Ozone generator to water sanitzer
- Chromotherapy lamp with 55 LEDs

Version: 01.2014

Standard Specification

Dimensions:	2000 x 1500 x 850 mm
Shell material:	6,3mm PU reinforced acrylic
Sitting places:	2 persons
Reclining places:	1 person
Water volume:	700 l
Net weight:	250 kg
Power requirement:	1 x 25A (230V) optimum 1 x 16A (230V) minimum
Total number of jets:	36pc
Hydromassage pump:	1x3 HP (230V/50Hz)
Hot air blower pump:	1x300W (230V/50Hz)
Energy-efficient LAING circulation pump:	1pc
Diverter:	1pc
Chromotherapy lightning :	1 lamp with 55 LEDs
Exclusive colour therapy lighting:	---
Filter system:	1 set (2pcs.)
Ozone generator:	1 pc
Heating unit:	1 x 3kW (230V/50 Hz)
1,5”drain:	1 pc
Air inlet regulator:	3 pc
Balboa BP600 control sytem:	1 pc
Maintenance-free Synthetic Cabinet:	1 set
Thermo cover:	1 set
Surface-treated wood frame:	1 set

WARRANTY LETTER

Serial number:……

Model:……

Distributor	*Retailer*
Date of buying: _____ Signature: (stamp)	Date of buying: _____ Signature: (stamp)

2014 Wellis Spa Limited Warranty

WARRANTY FOR EXPORT

Warranty; Limitations of Liability and Damages.

Company offers a limited warranty comprised of replacement of faulty parts and offers no reimbursement for labor of repairs outside any abnormal failure rates to be determined by both parties.

5 year on spa shell: Wellis warrants the structure of the Pool Shell against defects in workmanship and material for a period of 5 years, subject to the limitations and conditions listed in this Warranty.

3 years on spa shell surface: The acrylic spa shell is warranted against cracking, blistering or delaminating due to defects in materials or workmanship for three years from the original date of delivery.

2 years on spa plumbing: Spa fittings and plumbing are warranted against leaks due to defects in materials or workmanship for two years from the original date of delivery. There is no labor coverage on internal jet parts replacement, cleaning or adjusting.

2 years on standard and optional spa equipment – Balboa Control Systems, Jet Pump(s), Laing Circulation Pump, Heater, WiFi modul, IR receiver: The spa equipment systems are warranted against failure due to defects in materials or workmanship for two years from the date of delivery. Fuses, bulbs, and seals are not covered.

2 year on Pulsar hydrotherapy system: The factory installed Pulsal hydrotherapy systems are warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

2 year on spa cabinets/skirts: The factory installed spa cabinets/skirts are warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

2 year on ozone generator: The ozone generator is warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

2 year on audio system components: The factory installed audio components (i.e. power supply, speakers, wires, etc.) are warranted against failure due to defects in materials or workmanship for one year from the original date of delivery. There is no in-field labor service on these items.

2 year on LED lights: The factory installed LED lights are warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

2 year on UV-C sanitizer lamp: The factory installed UV-C sanitizer lamps are warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

2 year on ISIS Genesis disinfection system: The factory installed ISIS Genesis disinfection systems are warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

1 year on blower: The blower is warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

1 year on thermo cover: The thermo cover is warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

1 year on Wellis Spa Umbrella: The factory installed Wellis Spa Umbrellas are warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

1 year on LCD TV system: The factory installed LCD TV systems are warranted against failure due to defects in materials or workmanship for one year from the original date of delivery.

90 days on skimmer house: Skimmer houses are subject to water chemistry variation and are warranted for ninety days from the original date of delivery. **NO warranty** on filters, spa pillows and skimmer house tops.

WARRANTY PERFORMANCE

1. This warranty does not cover cleaning or adjusting spa or for customer error in following correct procedures.

2. Wellis Magyarország Kft. reserves the right to substitute a spa or component of equivalent value, either new or factory reconditioned and any such repair or replacement shall assume as its warranty only the remaining portion of the warranty on the original product.

3. Wellis Magyarország Kft. is not liable for any costs associated with in-ground, in-deck, or in-home installations or removal. Costs associated with installations other than standard residential portable spa use will be the sole responsibility of the spa owner. The spa owner is responsible for any freight and/or delivery and set up charges for a replacement spa.

4. The radio reception is not covered under warranty due to the following: The radio signal reception may be impaired by the positioning of the spa next to or near structures, high power lines, main power lines or metallic towers. The signal reception may be impaired if the spa is located near hills or it is in a valley or simply outside the broadcasting range of the radio stations. The position of the spa and radio may be “out of phase with the bandwidth” or the radio frequency. External signal reception assistance may be required and is not part of this warranty.

5. Wellis Magyarország Kft. shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty, breach of contract, negligence, strict liability, or any other legal theory related to this product. All consequential expenses including loss of use, damages, or contingent liabilities arising out of any alleged deficiencies of the spa are specifically excluded from this warranty.

6. Warranty coverage is only extended to the original buyer. Spas purchased from anyone other than a current Wellis Spas Authorized Dealer are specifically excluded from any warranty coverage. To obtain warranty service, please notify your Wellis Spas Authorized Dealer in writing within 14 days of the problem (with problem details, original proof of purchase).

7. The Authorized Dealer will repair or replace any component found defective under the terms of this warranty – and permitted by Wellis Magyarország Kft. Travelling expenses may apply outside of every European cities.

8. If the Authorized Dealer doesn`t supply the customer with proper service, please notify Wellis Magyarország Kft. by mail within 10 days of the problem.

9. Electrical connection: All electrical connections are required to be done by a qualified electrician solely. The spa has to be connected to separate current circuit equipped with suitable power switch and life safety relay. Omission of these electrical conditions/requirements entails immediate loss of the warranty.

10. Water connection: All water connections are required to be done by a qualified plumber solely. If the spa is placed indoor make allowances for the following special requirements: The water accumulates around the spa so the socket cover has to be in possession of a suitable drainage. This arrangement hinders the water in collecting.

11. Wellis Magyarország Kft. offers a limited warranty as described in the Warranty Letter.

12. Warranty claim is enforceable with this warrant letter. Irregular establishing of this warrant letter doesn`t affect to the validity of warranty obligation. If customer doesn`t get this warrant letter from the Authorized Dealer, it doesn`t affect to the validity of warranty obligation.

SPA WARRANTY COVERAGE WILL BE VOID UNDER THE FOLLOWING CONDITIONS

1. If damages caused by inefficient maintance of water and/or chemical dosage.
   Terms of water hardness (limits): between 6-10 German degrees.

2. If the spa surface or equipment has been damaged or discolored as a result of improper water chemistry maintenance, including sanitizers such as trichlor type chlorine, calcium hypochlorite, sodium hypochlorite, and any other chemicals or a chemical dispenser that may rest on the spa surface. Some household cleaners can damage the spa shell or equipment and will void this warranty completely. Use only products that are recommended for spas.

3. If damage to the spa has resulted from an Act of God, force majeure, moving of the spa, improper installation, unstable power conditions, customer negligence, customer abuse, weather and sunlight damage or damage caused in shipment.

4. If damage to the spa has resulted from operation outside – temperature exceed 45°C.

5. If the spa has been subjected to any alterations, after-market product installations, misuses, abuses, or if any repairs are attempted by anyone other than its authorised dealers.

6. If damage to the spa has resulted from improper use of thermo cover.

7. If damage to the spa has resulted from clogged, dirty and/or sclerosed filter. The spa warranty will be void if the owner does not follow all the instructions in the owners manual regarding the proper use and care of the spa. Warranty doesn`t apply to filters!

8. If damage to the spa has resulted from improper electrical installation, voltage drop, peak voltage and/or operation is outside the pale of + / - 10% voltage range.
   Electrical conditions:

   For electrical installation it is required to build a 30mA circuit breaker (life safety relay), which is just connected to the spa (not allowed to connect any other devices). This 30 mA circuit breaker is not permitted to be installed in the same place as the spa.
   Required to install IEC, RCCB system in spa`s common surroundings.
   Length of cable is 3 meters at the place of spa installed.
   It is obligatory to observe all information, details and requirements which are in the product`s installation diagram regarding elelectricity demand and drain installation.
   These information can be found in the user manual, or able to download from www.wellis.eu. If you didn`t get the document from your dealer, please contact export@wellis.eu.

9. If damage to the spa has resulted from debris in jets (i.e. sand, dirty calcium, leaves etc.).

10. Warranty doesn`t extend to the waste water manifold (drain hose), pillows, filters, bulbs and/or pump sealings.

LIMITATIONS

The Warranty expressions specified excludes any other implied or oral undertakings. Purchasers also have current rights under statute which will be respected by Wellis Magyarország Kft. After a period of 12 months, for the purpose of assessing Wellis Magyarország Kft. liability, all aspects covered by this Warranty will be treated on a pro-rata basis. Wellis Magyarország Kft. or its agents will not be liable for any incidental or consequential loss or injury. Nor will Wellis Magyarország Kft.be liable for costs associated with but not limited to building alterations or finishes and under no circumstances will be liable for greater expense than the amount paid for the product.

THE SPA OWNER MUST DO EVERYTHING STATED IN THE SPA OWNERS MANUAL AND WARRANTY LETTER TO SAFEGUARD AND MAINTAIN THE SPA!

MANUFACTURER OF YOUR SPA:
Wellis Magyarország Kft.

Registered:..... 1118 Budapest, Budaörsi út 31/c, Hungary;

Central premise:.....2371 Dabas, Mánteleki út hrsz: 0417 Pf: 7, Hungary

AUTHORIZED DEALER OF YOUR SPA
Company in charge of your spa

Company name:.....

Registered:.....

Central premise:.....

Place of complaint: .....

E-mail address:.....

Website:.....

Phone number: .....

Fax: .....

Person in charge of installation: .....

Date of installation: .....

SERVICE-WORK

The announcement date of damage: _____
Date of received goods/parts for repair: _____
Date of the return of repaired goods/parts: _____
Date of site service: _____
Improved error: _____
Mode of repair: _____
Failed component: _____
New deadline for the warranty: _____

A

STAMP

The announcement date of damage: _____
Date of received goods/parts for repair: _____
Date of the return of repaired goods/parts: _____
Date of site service: _____
Improved error: _____
Mode of repair: _____
Failed component: _____
New deadline for the warranty: _____

B

STAMP

The announcement date of damage: _____
Date of received goods/parts for repair: _____
Date of the return of repaired goods/parts: _____
Date of site service: _____
Improved error: _____
Mode of repair: _____
Failed component: _____
New deadline for the warranty: _____

C

STAMP

The announcement date of damage: _____
Date of received goods/parts for repair: _____
Date of the return of repaired goods/parts: _____
Date of site service: _____
Improved error: _____
Mode of repair: _____
Failed component: _____
New deadline for the warranty: _____

D

STAMP

SAFETY INSTRUCTIONS

ATTENTION: PLEASE READ CAREFULLY AND FOLLOW THE INSTRUCTIONS

AVOIDING THE RISK TO CHILDREN

1. In order to reduce the risk of injury to children, do not allow children to use this spa alone unless they are carefully supervised at all the times.
2. In order to reducing the risk of injury to children, lower water temperatures are recommended for young children. Please test the water temperature with your hands before allowing children to enter into the spa, and make sure It Is comfortable for children's usage.
3. Remember that wet surfaces can be slippery, please reminding children to be careful enough when entering or exiting the spa.
4. Don't permit children to climb onto the spa cover.

AVOIDING THE RISK TO ADULT

1. In order to reducing the risk of injury to persons, do not remove or lost any suction fittings Never operate spa if the suction fitting are broken or missing.
2. Remember that wet surfaces can be very slippery. Take care of a danger of slipping and falling when entering or exiting the spa.
3. For the sake of health, people with infectious diseases should not be allowed to use the spa.
4. Keep any loose articles of clothing or hanging jewelry away from rotating jets or other moving components.
5. The use of drugs, alcohol or medicine before or during spa use may lead to uncon sciousness with the possibility of drowning. Persons using medicines should consult a physician before using spa; some medicine may cause a user to become drowsy. While other medicine may affect heart, blood pressure and circulation.
6. Pregnant women should consult a physician before using the spa.

AVOIDING THE RISK OF ELECTROCUTION

1. Test the ground fault circuit interrupters before use. Must always to be connected to a circuit protected by a ground fault interrupt.
2. Must not bury the power cord, a buried power cord may result in death, or serious personal injury due to electrocution. Replace a damaged cord immediately.

3 Do not permit any electrical appliances, such as a light, telephone, radio, or television within 1.5m of a spa. Failure to maintain a safe distance may result in death, or serious pers on injury due to electrocuting if the appliance should fall into the spa

4 Install your spa in such a way that drainage is away from the electrical compartment and from all electrical components.

5 Disconnect the spa from the power supply before servicing the electrical components.

NOTICE:

Your spa is a equipment with two/three massage pumps that allow you to operate each half of the jet system separately or both valves simultaneously. Do not connect power to an empty spa. Otherwise the components such as controller, heater, circulation pump, and other systems could be damaged.

INSTALLATION INSTRUCTIONS

SITE PREPARATION

1.INDOOR/BASEMENT INSTALLATION

If you place your spa indoors, be aware of some special requirements. Water will accumulate around the spa, so flooring materials must provide a good grip when wet proper drainage is essential to prevent a build-up of water around the spa. When building a new room for the spa it is recommended that a floor drain is installed. The humidity will naturally increase with the spa installed water may get into woodwork and produce dry rot ,mildew or other
problems check for airborne moisture's effects on exposed wood ,paper ,etc in the room .To minimize these effects, it is best to provide plenty of ventilation to the spa area .

2.OUTDOOR AND PATIO INSTALLATION

It is important that you have solid foundation to support the new spa when you install it ,To be certain your deck or foundation can support your spa .you must know the deck's maximum load capacity Consult a qualified building contractor or

structural engineer. To find the weight of your spa. its contents and occupants , please refer to the spa specification chart . This weight per square foot must not exceed the structure's rated capacity; otherwise serious structural damages could result . If you install the spa outdoors ,we recommend a reinforced concrete pad at least four inches thick .Don't forget to install some floor drains around your spa so that it can take the water away during and after the heavy rain.

INSTALLATION

1.Please read and study the OWNER'S MANUAL carefully, if possible, please find the professional people to install and setup for first time .

2.Remove the package, and takes down the new spa on the prepared foundation.

3.Open the computer control box compartment under the computer display by loosen the screw and then open the compute box, prepare the accordingly cooper cable (the length will be enough to connect to the family power supply), with electrical plug one side, and another side without plug and then take the empty side of cable from electrical cable, channel to go through the pump compartment to the channel of control box compartment ,connect it to control box according to the following illustration:

4.Clean and wax your spa shell and cover your spa has been thoroughly tested during the manufacturing process to ensure reliability. So there's a small amount of water even within some grease may have remained in the plumbing after testing, as a result, ay have spotted the spa shell or the spa shell or the spa siding prior the delivery so before filling spa , it is a need to put some new water to wash it and then wipe the spa shell clean with a soft rage, or some acrylic cleaner and wax it if possible.

OPERATING INSTRUCTIONS

1. Close the drain and fill the spa with water

After closing the drain, put your garden hose inside the tub and turn your water on to fill the spa, and the water level should be maintained approximately 1 above the top of the highest jet keep an eye on everything as filling. If you see any leak(or flood) anywhere, turn off the water until it will be fixed.

2. Power up your spa

First check the main house CIRCUIT BREADER that controls the electric to the spa are functioning properly, connect spa plug to the power supply.

3. Trail open and test

Your controller with a factory`s first setup already, push the button of PUMP and AIR BLOWER to make jets run for some minutes to check the operation of the jet system and purge any remaining air from the heating system, once the jet system fully operational, priming of the spa is complete. Check and make sure the air controller and jets are open. Another possible main problem is AIR LOCK, which can cause the jets to appear not work well or at all. It is happened that when you are filling the spa up fairly rapidly, air can get trapped in the pipes that go to the suction fittings and the jets. The water level rises up past the openings in the spa. The air becomes locked in the pipes, and then when you go to start the spa pump, it tries to suck in water, but only air is in the pipes. The pump cannot prime itself at that point, so it just runs, but does not pump any water. Open the door of pump compartment, loosen the quick disconnect fitting in front of the pump a little, let some air get in and will break the air lock that has developed, and then see some water start to come out, re-tighten the fitting, turn the pump on, it will surge for a few seconds and then start to pump properly. If it still does not work. Please contact a local spa professional to check it for you.

CLEANING

GENERAL INFORMATION:

Water recirculation-filtering

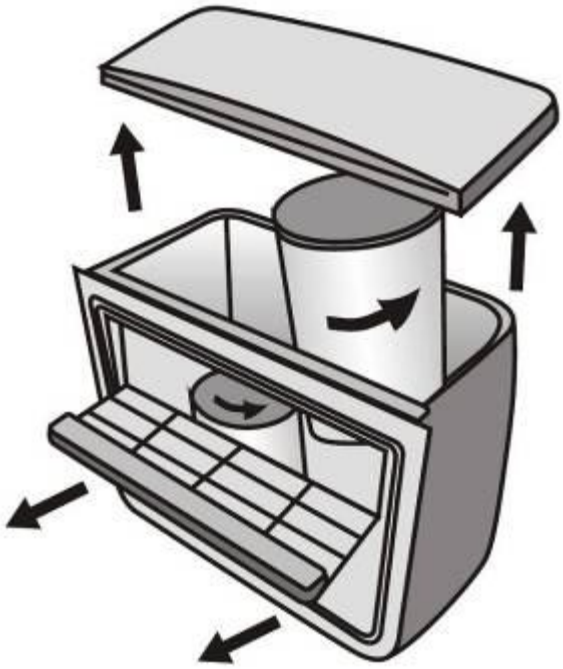
The basic conditions for keeping the water of the massage basin clean are the removal of mechanical dirt and the blending of the chemicals in the water with continuous water recirculation. In all our basins appliances comprising of a pump and a filter are used for this purpose. The filter removes the dirt floating in the water or at the surface of the water. Filters with paper or textile filter medium are used for the basins. The dirt settled at the bottom of the basin is filtered out with the aid of the suction and stirring created by the massage pumps.
Don't leave the spa expose to the sun without water or the cover, Exposure to direct sunlight can cause solar distress of the shell material. Use and cover spa cover when spa is not in use, whether it is empty or full. Try to deep your spa away form rain, snow, if possible build a gazebo for your spa.

1. Don't attempt to open the electrical control box . There are no user serviceable parts inside.
2. Drain, clean and refill your spa with fresh water on a regular schedule.
3. Clean the filter cartridge at least once per month.
4. Have spa users bathe before entering the spa water, showering without soap prior to enter the spa, and using only the rinse cycle when laundering your bathing suit, will help avoiding detergent and soap residue in spa water.

FILTER CARTRIDGE RMOVAL AND CLEANING

You spa filter cartridge can become clogged with mineral particles of calcification from hard water. Which may result in reduced water flow. We recommended cleaning you filter cartridge every month.

1.Remove filter lid.
2.Unscrew filter cartridge.
3.Clean with high pressure nozzle to remove all debris clinging to the filter.
4.Soak filter in warm water and Wellis Alga-Sokk to remove all body oils and grime. **Never use chlorine to clean the filter!** If you use textile filter, you can wash it int he washing machine too.



The chemical equilibrium of the water

The water of the whirlpool will be clean and clear if its chemical components are in equilibrium.

1. pH-values:

The first important indicator is the pH value of the water. pH is measured in a scale between 0-14 where 7 is the neutral value. Below this level the water is acid, above it alkaline. The pH value of the human eye is around 7.5, below 7.2 and above 7.8 the water will sting the eyes of the bather. Experiences have shown that most problems are caused by a too high pH value. An improper value reduces the effect of the disinfectant.

2. Water hardness:

Water hardness is determined by the quantity of calcium and magnesium salts dissolved in the water. Hard waters contain too much of these dissolved salts and thus, left alone, scale will form. Scales can cause significant damage both to the walls of the basin, to the piping, filter and to the heating and engineering units. In Hungary waters are medium hard. Water hardness cannot be reduced by the addition of chemicals, but the formation of scales can be prevented.

3. Disinfection:

Disinfectant: is the chemical that eliminates or neutralises the microorganisms (bacteria, algae, fungi, viruses) present in the water. Microorganisms are small, microscopic organisms, which cannot be detected with the naked eye and are continuously getting into the water through rain, wind and the body of the bathers. If they are not eliminated they pass from one person to the other through the water (and may cause sickness, infection). Organic matter turns the water of the basin opaque and cloudy. Most often – as we are dealing with warm water basins – bromine or active oxygen is used.

4. Frothing:

Froth is the smaller-bigger agglomeration of the bubbles and colloid contaminants found on the surface of the water. It is mostly caused by the mixing of the dirt, cosmetics, body care lotions, etc. that soak out of the human skin and the chemicals. It endangers the conservation of the aesthetic appearance and cleanliness of the water.

5. Water analysers:

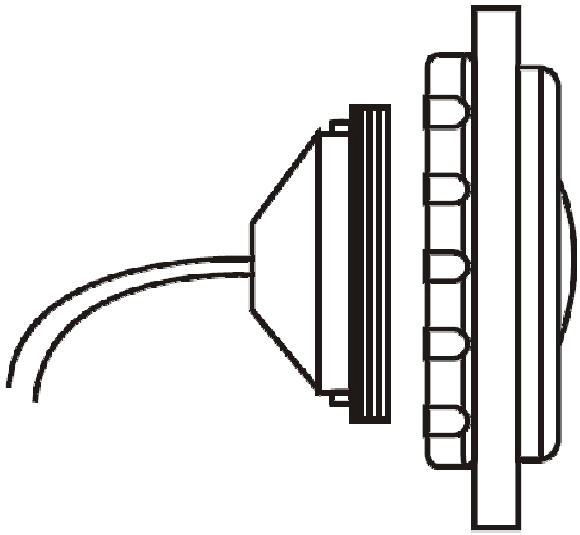
There are several different types of water analysers, which are mostly used to measure chemical and disinfectant effect. Chemical (pH); Disinfectant (Br, O_3)

Types:

- Box containing tablets and graduated measuring glass.
- Litmus paper indicators in a box.

Replacing underwater light

1. Turn off thepower on the spa.
2. Remove plastic panel behind where the underwater light is situated.
3. There is a plug with two wires going into the back of the light.
4. Remove this plug by turning anticlockwise.
5. Replace faulty light globe with a new one.
6. Replace parts and put the plastic panel back on.



TROUBLESHOOTING

Problem	Probable causes	solutions
Cloudy Water	Dirty filters Improper sanitization Suspended particles /organic matter Overused or water	Clean filters Shock spa with sanitizer Add sanitizer Adjust PH and/ or alkalinity to recommended range Run jet pump(s) and clean filters Drain and refill the spa
Water Odor	Excessive organics in water Improper sanitization Low PH	Shock spa with sanitizer Add sanitizer Adjust PH refill the spa
Chlorine Odor	Chloramines level too high low PH	Shock spa with sanitizer Adjust PH to recommended range
Musty Odor	Bacteria or algae growth	Shock spa with sanitizer id problem is visible or persistent drain, clean and refill the spa
Organic buildup/scum ring around spa	Build-up of oils and dirt	Wipe off scum with clean rag-if severe. Drain the spa. Use a spa surface and the cleaner to remove the scum, and refill the spa
Algae Growth	High PH Low sanitizer level	Shock spa with sanitizer and adjust PH Shock spa with sanitizer and maintain sanitizer level
Eye limitation	Low PH Low sanitizer level	Ajust PH Shock spa with sanitizer and maintain sanitizer level
Skin imitation/Rash	Unsanitary water Free chlorine level above 5ppm	Shock spa with sanitizer and maintain sanitizer level Allow free chlorine level to drop below 5ppm before spa use
Stains	Total alkalinity and/ or PH too low high iron or copper in source water	Adjust total alkalinity and/or PH Use a metal deposit inhibitor
Scale	High calcium content in water-total alkalinity and PH too high	Adjust total alkalinity and PH--if scale requires removal drain the spa scrub off the scale, refill the spa and balance the water

Problem	Probable causes	Solutions
Entire spa is inoperative	Power failure GFCI tripped heater high-limit thermostat tripped	Check power source Reset GFCL, call for service if will not reset Disconnect power for at least thirty seconds to reset heater high limit. If it will not reset check for clogged filters. If tripping continues, call for service.
Spa does not heat jets and light operate(Ready, and power indicators are power indicators are blinking)	Integrated pressure switch open Circulation pump thermal cut-off tripped	Check for cartridge filters. Integrated pressure switch will reset when the flow of water through the heater has been restored Call for service if the heater trips frequently. Check for cartridge filters or are looks in plumbing Disconnected power to the spa, allow circulation pump to cool Circulation pump thermal cut off will reset when pump has cooled and power is reapplied. Call for service if circulation pump thermal cut-off trips frequently.
Jets weak or surging	Spa water level too low Filters clogged Air Control closed Jet closed	Add water Clean filters Open Air Controller Open the jet by adjust face of it
Light inoperative	Light wiring or assembly is faulty	Replace light assembly
Power indicator blinking (Enter spa inoperative)	Heater high-limit thermostat tripped	Disconnect power for at least thirty seconds to reset heater high limit. If it will not reset. Check for clogged filters if tripping continues, call for service.
Ready indicator blinking	Temperature sensor problem	Disconnect power for at feast thirty seconds if blinking continues, call for service.

Ibiza Spa system

BALBOA TP600

HOT TUB Control panel

Main screen

NAVIGATION

Navigating the entire menu structure is done with 2 or 3 buttons on the control panel. Panels that have two Temperature buttons (Warm and Cool) can use both of them to simplify navigation and programming where a single Temperature icon is shown.
The **LIGHT** Button is also used to choose the various menus and navigate each section.
Typical use of the Temperature button(s) allows changing the Set Temperature while the numbers are flashing in the LCD. Pressing the **LIGHT** button while the numbers are flashing will enter the menus.
The menus can be exited with certain button presses. Simply waiting for several seconds will return the panel operation to normal.

KEY

Indicates Alternating or Progressive Message - every 1/2 second

Indicates flashing or changing segment

A temperature button, used for “Action”

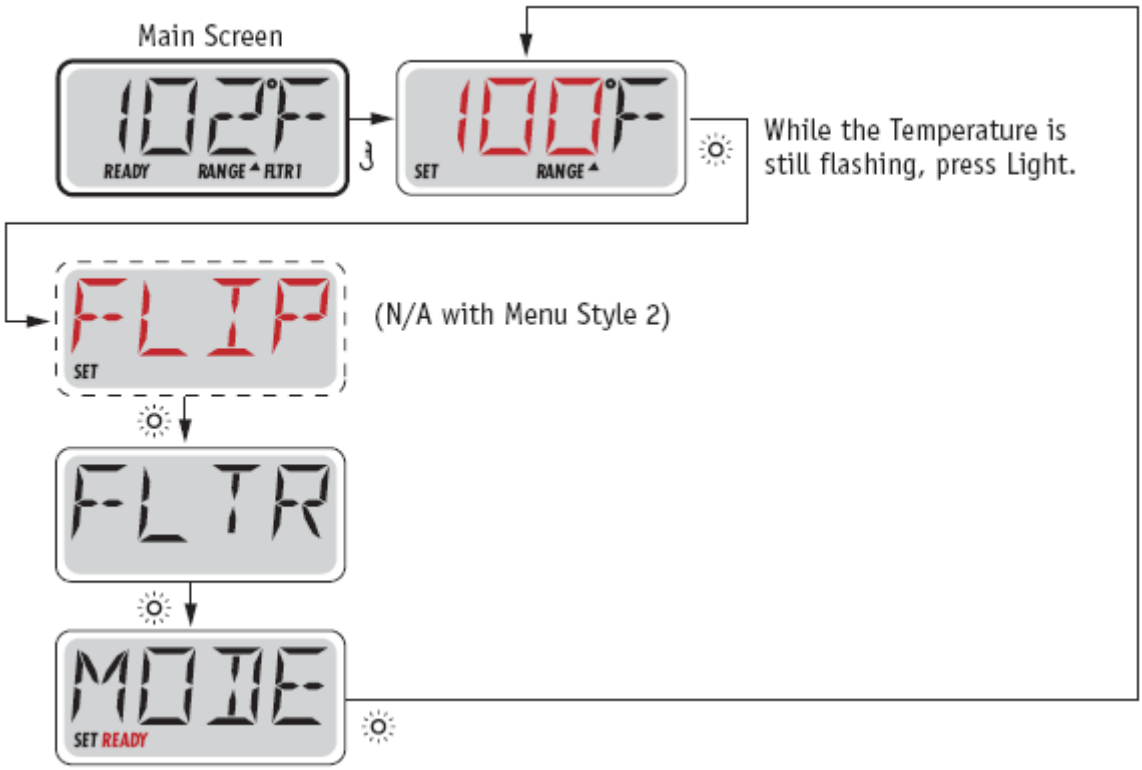
Light or dedicated “Choose” button, depending on control panel configuration

●●●●● Waiting time that keeps the last change to a menu item.

***** Waiting time (depends on menu item) that reverts to original setting and ignores any change to that menu item.

POWER-UP SCREENS

Each time the System powers up, a series of numbers is displayed. After the startup sequence of numbers, the system will enter Priming Mode.



Waiting Several Seconds in the Main Menu will allow the display to revert to the Main Screen. Most changes are not saved unless Light is pressed. Refer to Key above.

Indicates a Menu Item that Depends on a Manufacturer Configuration and may or may not appear.

PREPARATION AND FILLING

Fill the spa to its correct operating level. Be sure to open all valves and jets in the plumbing system before filling to allow as much air as possible to escape from the plumbing and the control system during the filling process.

After turning the power on at the main power panel, the top-side panel display will go through specific sequences. These sequences are normal and display a variety of information regarding the configuration of the hot tub control.

PRIMING MODE – M019*

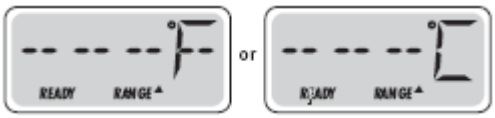
This mode will last for 4-5 minutes or you can manually exit the priming mode after the pump(s) have primed.

*M019 is a Message Code.

Regardless of whether the priming mode ends automatically or you manually exit the priming mode, the system will automatically return to normal heating and filtering at the end of the priming mode. During the priming mode, the heater is disabled to allow the priming process to be completed without the possibility of energizing the heater under low-flow or no-flow conditions. Nothing comes on automatically, but the pump(s) can be energized by pushing the "Jet" buttons.
If the spa has a Circ Pump, it can be activated by pressing the "Light" button during Priming Mode.

EXITING PRIMING MODE

You can manually exit Priming Mode by pressing a "Temp" button (Up or Down). Note that if you do not manually exit the priming mode as described above, the priming mode will be automatically terminated after 4-5 minutes. Be sure that the pump(s) have been primed by this time.
Once the system has exited Priming Mode, the top-side panel will momentarily display the set temperature but the display will not show the temperature yet, as shown below. This is because the system requires approximately 1 minute of water flowing through the heater to determine the water temperature and display it.



PUMPS

Press the "Jets 1" button once to turn pump 1 on or off, and to shift between low- and high-speeds if equipped.
If left running, the pump will turn off after a time-out period. The pump 1 low-speed will time out after 30 minutes. The high-speed will time out after 15 minutes.
On non-circ systems, the low-speed of pump 1 runs when the blower or any other pump is on. If the spa is in Ready Mode, Pump 1 low may also activate for at least 1 minute every 30 minutes to detect the spa temperature (polling) and then to heat to the set temperature if needed. When the low-speed turns on automatically, it cannot be deactivated from the panel, however the high speed may be started.

Circulation Pump Modes

If the system is equipped with a circ pump, it will be configured to work in one of three different ways:
1, The circ pump operates continuously (24 hours) with the exception of turning off for 30 minutes at a time when the water temperature reaches 3°F (1.5°C) above the set temperature (most likely to happen in very hot climates).
2, The circ pump stays on continuously, regardless of water temperature.
3, A programmable circ pump will come on when the system is checking temperature (polling), during filter cycles, during freeze conditions, or when another pump is on.
The specific Circulation Mode that is used has been determined by the Manufacturer and cannot be changed in the field.

FILTRATION AND OZONE

On non-circ systems, Pump 1 low and the ozone generator (if there is one) will run during filtration. On circ systems, the ozone will run with the circ pump.
The system is factory-programmed with two filter cycles that will run 10 minutes after power-up. The filter duration is programmable.
At the start of each filter cycle, the blower (if there is one) or Pump 2 (if there is one) will run briefly to purge its plumbing to maintain good water quality.

FREEZE PROTECTION

If the temperature sensors within the heater detect a low enough temperature, then the pump(s) and the blower automatically activate to provide freeze protection. The pump(s) and blower will run either continuously or periodically depending on conditions.
In colder climates, an optional additional freeze sensor may be added to protect against freeze conditions that may not be sensed by the standard sensors. Auxiliary freeze sensor protection acts similarly except with the temperature thresholds determined by the switch. See your dealer for details.

CLEAN-UP CYCLE (OPTIONAL)

When a pump or blower (if there is one) is turned on by a button press, a clean-up cycle begins 30 minutes after the pump or blower is turned off or times out. The pump and the ozone generator (if there is one) will run for 30 minutes or more, depending on the system.

ADJUSTING THE SET TEMPERATURE

When using a panel with Up and Down buttons (Temperature buttons), pressing Up or Down will cause the temperature to flash. Pressing a temperature button again will adjust the set temperature in the direction indicated on the button. When the LCD stops flashing, the spa will heat to the new set temperature when required.
If the panel has a single temperature button, pressing the button will cause the temperature to flash. Pressing the button again will cause the temperature to change in one direction (e.g. UP). After allowing the display to stop flashing, pressing the Temperature Button will cause the temperature to flash and the next press will change the temperature in the opposite direction (e.g. DOWN).
The temperature can be set between 60°F and 104°F.

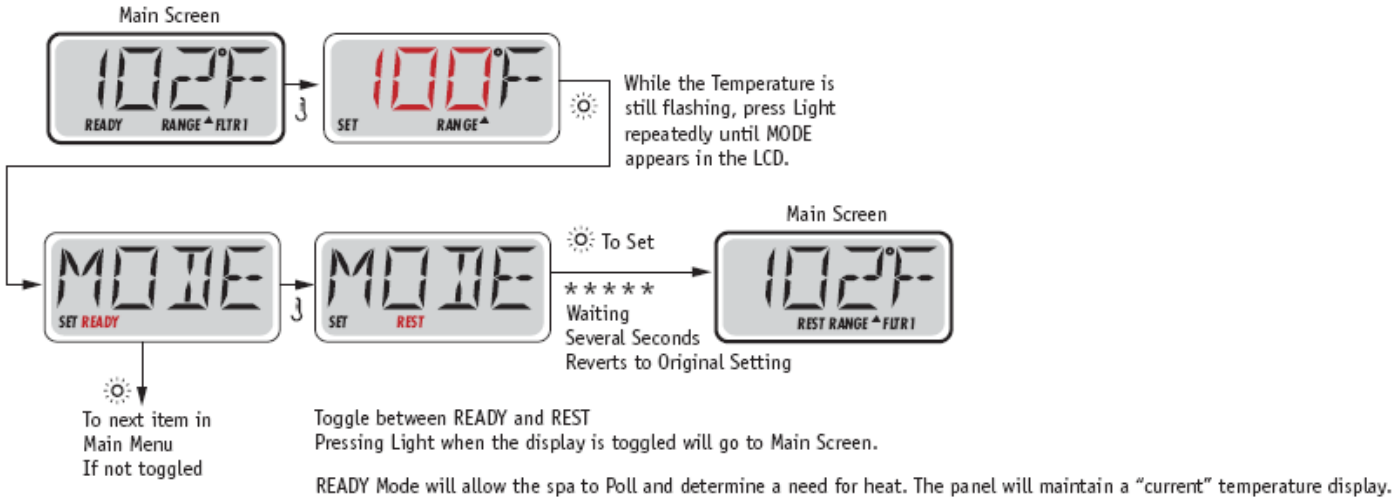
PRESS-AND-HOLD

If a Temperature button is pressed and held when the temperature is flashing, the temperature will continue to change until the button is released. If only one temperature button is available and the limit of the Temperature Range is reached when the button is being held, the progression will reverse direction.

In order for the spa to heat, a pump needs to circulate water through the heater. The pump that performs this function is known as the “heater pump.”
The heater pump can be either a 2-Speed Pump 1 or a circulation pump.
If the heater pump is a 2-Speed Pump 1, READY Mode will circulate water every 1/2 hour, using Pump 1 Low, in order to maintain a constant water temperature, heat as needed, and refresh the temperature display. This is known as “polling.”
REST Mode will only allow heating during programmed filter cycles. Since polling does not occur, the temperature display may not show a current temperature until the heater pump has been running for a minute or two.

CIRCULATION MODE

If the spa is configured for 24HR circulation, the heater pump generally runs continuously. Since the heater pump is always running, the spa will maintain set temperature and heat as needed in Ready Mode, without polling.
In Rest Mode, the spa will only heat to set temperature during programmed filter times, even though the water is being filtered constantly when in Circulation Mode.

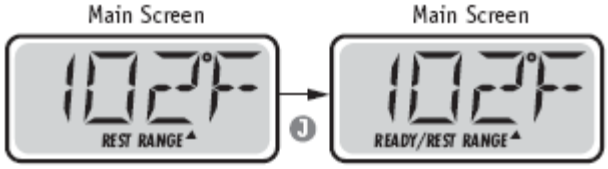

Main Screen
102°F
READY RANGE ▲ FLTR 1
100°F
SET RANGE ▲
While the Temperature is still flashing, press Light repeatedly until MODE appears in the LCD.
MODE
SET READY
MODE
SET REST
To Set
* * * * *
Waiting
Several Seconds
Reverts to Original Setting
Main Screen
102°F
REST RANGE ▲ FLTR 1
To next item in Main Menu If not toggled
Toggle between READY and REST
Pressing Light when the display is toggled will go to Main Screen.
READY Mode will allow the spa to Poll and determine a need for heat. The panel will maintain a “current” temperature display.

REST Mode will not Poll and will only heat during filter cycles. The panel will not display a current temperature at all times.

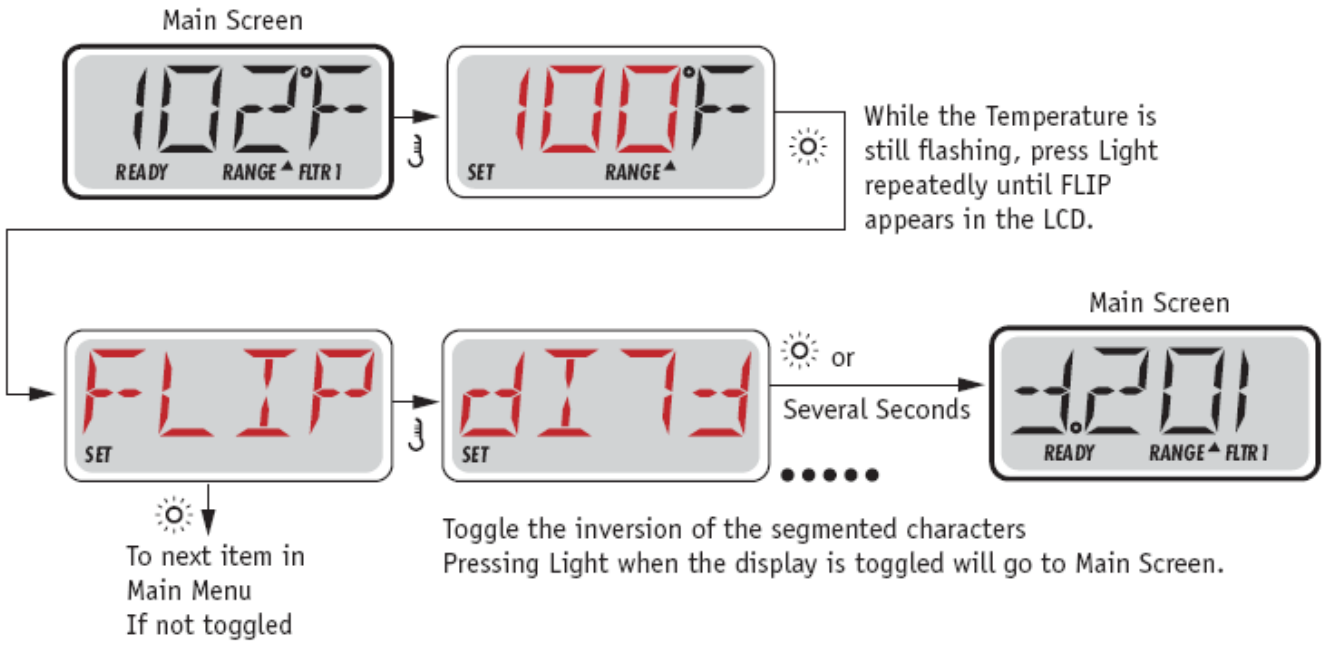
The Main Screen will display RUN PUMP FOR TEMP if the filtration pump has not run for over 1 hour.
The Main Screen will display normally during Filter Cycles or when the spa is in use.
If the filtration pump has been off for an hour or more, when any function button, EXCEPT Light, is pressed on the panel, the pump used in conjuncton with the heater will run so that temperature can be sensed and displayed.

READY-IN-REST MODE

READY/REST appears in the display if the spa is in Rest Mode and Jet 1 is pressed. It is assumed that the spa is being used and will heat to set temperature. While Pump 1 High can be turned on and off, Pump 1 Low will run until set temperature is reached, or 1 hour has passed. After 1 hour, the System will revert to Rest Mode. This mode can also be reset by entering the Mode Menu and changing the Mode.



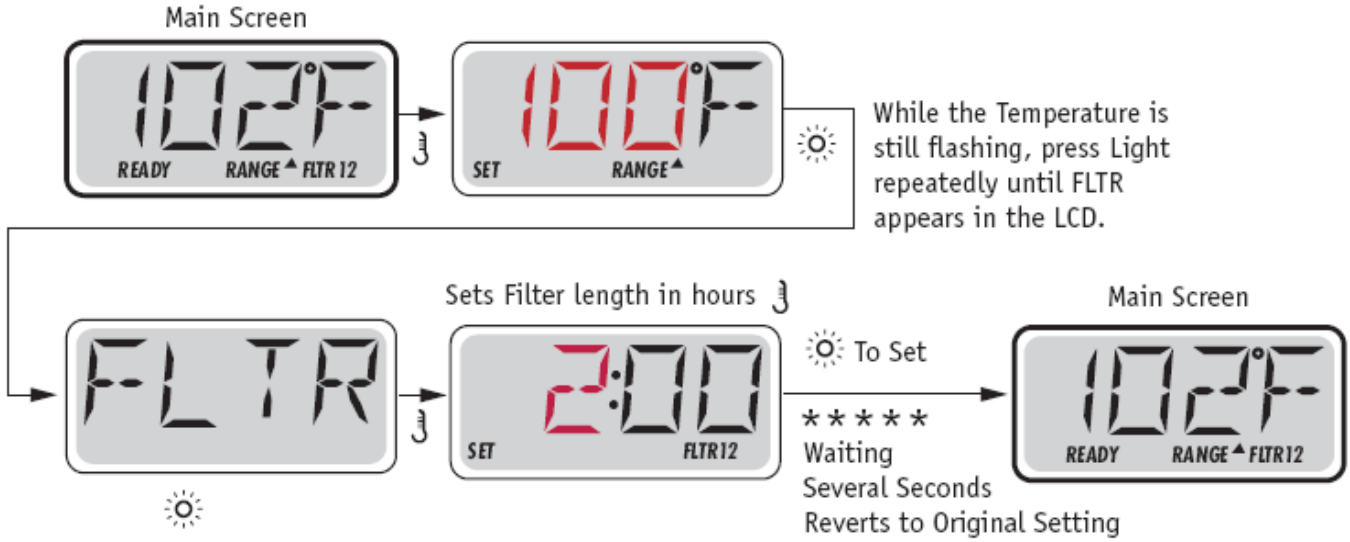
FLIP (INVERT DISPLAY)



Note: Some panels may have a dedicated FLIP button, which allows the user to flip the display with a single button-press. The FLIP menu/functionality depends on Manufacturer configuration and may not be available. (Menu Style 1)

MAIN FILTRATION

Filter cycles are set using a duration. Each setting can be adjusted in 1-hour increments. Filter Cycle 1 and Filter Cycle 2 (if enabled) are set to the same duration.



If Filter Cycle 2 is enabled, Filter 12 will appear in the LCD. If Filter is disabled, Filter 1 will appear.

PURGE CYCLES

In order to maintain sanitary conditions, secondary Pumps and/or a Blower will purge water from their respective plumbing by running briefly at the beginning of each filter cycle.

GENERAL MESSAGES

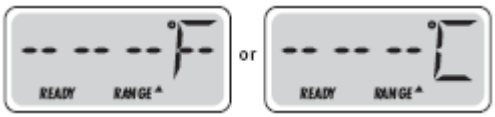
Priming Mode – M019

Each time the spa is powered up, it will enter Priming Mode. The purpose of Priming Mode is to allow the user to run each pump and manually verify that the pumps are primed (air is purged) and water is flowing. This typically requires observing the output of each pump separately, and is generally not possible in normal operation. Priming Mode lasts 4 minutes, but you can exit it earlier by pressing any Temp button. The heater is not allowed to run during Priming Mode.

NOTE: If your spa has a Circ Pump, it will turn on with Jets 1 in Priming Mode. The Circ Pump will run by itself when Priming Mode is exited.

Water Temperature is Unknown

After the pump has been running for 1 minute, the temperature will be displayed.



Too Cold – Freeze Protection

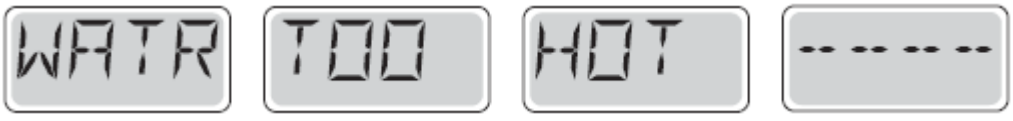
A potential freeze condition has been detected, or the Aux Freeze Switch has closed, and all pumps and blower are activated. All pumps and blower are ON for at least 4 minutes after the potential freeze condition has ended, or when the aux freeze switch opens.

In some cases, pumps may turn on and off and the heater may operate during Freeze Protection.

This is an operational message, not an error indication.

Water is too Hot (OHS) – M029

One of the water temp sensors has detected spa water temp 110°F (43.3°C) and spa functions are disabled. System will auto reset when the spa water temp is below 108°F (42.2°C). Check for extended pump operation or high ambient temp.



Safety Trip - Pump Suction Blockage* – M033

The Safety Trip error message indicates that the vacuum switch has closed. This occurs when there has been a suction problem or a possible entrapment situation avoided. (Note: not all spas have this feature.)

* This message can be reset from the topside panel with any button press.

HEATER-RELATED MESSAGES

Heater Flow is Reduced (HFL) – M016

There may not be enough water flow through the heater to carry the heat away from the heating element. Heater start up will begin again after about 1 min. See “Flow Related Checks” below.

Heater Flow is Reduced (LF)* – M017

There is not enough water flow through the heater to carry the heat away from the heating element and the heater has been disabled. See “Flow Related Checks” below. After the problem has been resolved, you must press any button to reset and begin heater start up.

Heater may be Dry (dr)* – M028

Possible dry heater, or not enough water in the heater to start it. The spa is shut down for 15 min. Press any button to reset the heater start-up. See “Flow Related Checks” below.

Heater is Dry* – M027

There is not enough water in the heater to start it. The spa is shut down. After the problem has been resolved, you must press any button to reset and restart heater start up. See “Flow Related Checks” below.

Heater is too Hot (OHH)* – M030

One of the water temp sensors has detected 118°f (47.8°C) in the heater and the spa is shut down. You must press any button to reset when water is below 108°f (42.2°C). See “Flow Related Checks” below.

A Reset Message may Appear with other Messages.

Some errors may require power to be removed and restored.

Flow-Related Checks

Check for low water level, suction flow restrictions, closed valves, trapped air, too many closed jets and pump prime. On some systems even when spa is shut down, some equipment may occasionally turn on to continue monitoring temperature or if freeze protection is needed.

* This message can be reset from the topside panel with any button press.

SENSOR-RELATED MESSAGES

Sensor Balance is Poor – M015
The temperature sensors MAY be out of sync by 2°F or 3°F. Call for Service.

Sensor Balance is Poor* – M026
The temperature sensors ARE out of sync. The Sensor Balance is Poor fault has been established for at least 1 hour. Call for Service.

Sensor Failure – Sensor A: M031, Sensor B: M032
A temperature sensor or sensor circuit has failed. Call for Service.

MISCELLANEOUS MESSAGES

No Communications
The control panel is not receiving communication from the System. Call for Service.

Pre-Production Software
The Control System is operating with test software. Call for Service.

°F or °C is replaced by °T
The Control System is in Test Mode. Call for Service.

* This message can be reset from the topside panel with any button press.

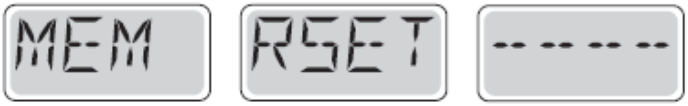
SYSTEM-RELATED MESSAGES

Memory Failure - Checksum Error* – M022

At Power-Up, the system has failed the Program Checksum Test. This indicates a problem with the firmware (operation program) and requires a service call.

Memory Warning - Persistent Memory Reset* – M021

Appears after any system setup change. Contact your dealer or service organization if this message appears on more than one power-up, or if it appears after the system has been running normally for a period of time.



Memory Failure - Clock Error* – M020 - Not Applicable on the BP1500

Contact your dealer or service organization.

Configuration Error – Spa will not Start Up

Contact your dealer or service organization.

GFCI Failure - System Could Not Test/Trip the GFCI – M036

NORTH AMERICA ONLY. May indicate an unsafe installation. Contact your dealer or service organization.

A Pump Appears to be Stuck ON – M034

Water may be overheated. POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

A Pump Appears to have been Stuck ON when spa was last powered – M035

POWER DOWN THE SPA. DO NOT ENTER THE WATER. Contact your dealer or service organization.

* This message can be reset from the topside panel with any button press.

REMINDER MESSAGES

General maintenance helps
Reminder Messages can be suppressed by using the PREF Menu.
Reminder Messages can be chosen individually by the Manufacturer. They may be disabled entirely, or there may be a limited number of reminders on a specific model.
The frequency of each reminder (i.e. 7 days) can be specifi ed by the Manufacturer.
Press a Temperature button to reset a displayed reminder message.

Appears on a regular schedule, e.g. every 7 days.
Check pH with a test kit and adjust pH with the appropriate chemicals.
Alternates with temperature or normal display.

Appears on a regular schedule, e.g. every 7 days.
Check sanitizer level and other water chemistry with a test kit and adjust with the appropriate chemicals.
Alternates with temperature or normal display.

Appears on a regular schedule, e.g. every 30 days.
Clean the filter media as instructed by the manufacturer.
Alternates with temperature or normal display.

Appears on a regular schedule, e.g. every 30 days.
The Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (RCD) is an important safety device and must be tested on a regular basis to verify its reliability.
Every user should be trained to safely test the GFCI or RCD associated with the hot tub installation.
A GFCI or RCD will have a TEST and RESET button on it that allows a user to verify proper function.
Alternates with temperature or normal display.

Warning:
If freezing conditions exist, a GFCI or RCD should be reset immediately or spa damage could result.
The end user should always trained to test and reset the GFCI or RCD on a regular basis.

Appears on a regular schedule, e.g. every 90 days.
Change the water in the spa on regular basis to maintain proper chemical balance and sanitary conditions.
Alternates with temperature or normal display.

Appears on a regular schedule, e.g. every 180 days.
Vinyl covers should be cleaned and conditioned for maximum life.
Alternates with temperature or normal display.

Appears on a regular schedule, e.g. every 180 days.
Wood skirting and furniture should be cleaned and conditioned per the manufacturers instructions for maximum life.
Alternates with temperature or normal display.

Appears on a regular schedule, e.g. every 365 days.
Filters should be replaced occasionally to maintain proper spa function and sanitary conditions.
Alternates with temperature or normal display.

As needed.
Install new mineral cartridge
Alternates with temperature or normal display.

Warning! Qualified Technician Required for Service and Installation

Basic Installation and Configuration Guidelines

Use minimum 6AWG copper conductors only.

Torque field connections between 21 and 23 in lbs.

Readily accessible disconnecting means to be provided at time of installation.

Permanently connected power supply.

Connect only to a circuit protected by a Class A Ground Fault Circuit Interrupter (GFCI) or Residual Current Device (RCD) mounted at least 5' (1.52M) from the inside walls of the spa/hot tub and in line of sight from the equipment compartment.

CSA enclosure: Type 2

Refer to Wiring Diagram inside the cover of the control enclosure.

Refer to Installation and Safety Instructions provided by the spa manufacturer.

Warning: People with infectious diseases should not use a spa or hot tub.

Warning: To avoid injury, exercise care when entering or exiting the spa or hot tub.

Warning: Do not use a spa or hot tub immediately following strenuous exercise.

Warning: Prolonged immersion in a spa or hot tub may be injurious to your health.

Warning: Maintain water chemistry in accordance with the Manufacturers instructions.

Warning: The equipment and controls shall be located not less than 1.5 meters horizontally from the spa or hot tub.

Warning! GFCI or RCD Protection.

The Owner should test and reset the GFCI or RCD on a regular basis to verify its function.

Warning! Shock Hazard! No User Serviceable Parts.

Do not attempt service of this control system. Contact your dealer or service organization for assistance. Follow all owner's manual power connection instructions. Installation must be performed by a licensed electrician and all grounding connections must be properly installed.

CSA Compliance/Conformité

Caution:

- Test the ground fault circuit interrupter before each use of the spa.
- Read the instruction manual.
- Adequate drainage must be provided if the equipment is to be installed in a pit.
- For use only within an enclosure rated CSA Enclosure 3.
- Connect only to a circuit protected by a Class A ground fault circuit interrupter or residual current device.
- To ensure continued protection against shock hazard, use only identical replacement parts when servicing.
- Install a suitably rated suction guard to match the maximum flow rate marked.

Warning:

- Water temperature in excess of 38°C may be injurious to your health.
- Disconnect the electrical power before servicing.

Attention:

- Toujours verifier l'efficacite du disjoncteur differentiel avant d'utiliser differentiel avant d'utiliser le bain.
- Lire la notice technique.
- Lorsque l'appareillage est installe dans une fosse, on doit assurer un drainage adequat.
- Employer uniquement a l'interieur d'une cloture CSA Enclosure 3.
- Connecter uniquement a un circuit protege par un disjoncteur differentiel de Class A.
- Afin d'assurer une protection permanente contre le danger de shock electrique, lors de l'entretien employer seulement des pieces de rechange identiques.
- Les prises d'aspiration doivent etre equipees de grilles convenant au debit maximal indique.

Avertissement:

- Des temperatures de l'eau superieures a 38°C peuvent presenter un danger pour la sante.
- Deconnecter du circuit d'alimentation electrique avante l'entretien.

Warning/Advertissement:

- Disconnect the electric power before servicing. Keep access door closed.
- Deconnecter du circuit d'alimentation electrique avant l'entretien. Garder la porte fermer.

Piping instructions of IBIZA spa

30mA safety relay is need to be installed!

Dimension: 2000x1500x850 mm

E: Electric terminal (400mm) facilities through spa cabinet. 3 m cabels are required!

Length and cross sections of cabels:

- **Electric condition:** 1x16A 3×2,5mm^2 MTK cabel is required (230V) (in this case – during usage of 3HP pumps – the heating is not working)
- **In case of full opertaion**: 1x25A 3×4mm^2 MTK cabel is required (230V) (in this case – during usage of 3HP pumps – the heating is working)

In case of sinking just allowed to sinking part which is under the spa`s acrylic-flange. You have to make safe the diversion of inlet water in the deepest point of the inspection pit. The inspection pit has to be aired accordingly (proposal: building in an extractor fan).
The inspection pit`s minimum width is 60 cm around the spa.
If the spa is placed indoor please make allowances for the following special requirements: The water accumulates around the spa so the socket cover has to be in possession of a suitable drainage. This arrangement hinders the water in collecting.

Given sizes above are only information, there may be variant sizes on the grounds of the spa`s manufacturing technique.

GS500Z GS501Z GS520DZ WLG523DZ BP26P3BC
1 LINE (1 FÁZIS) 1x230V 1x16A BP2100G1
BP600

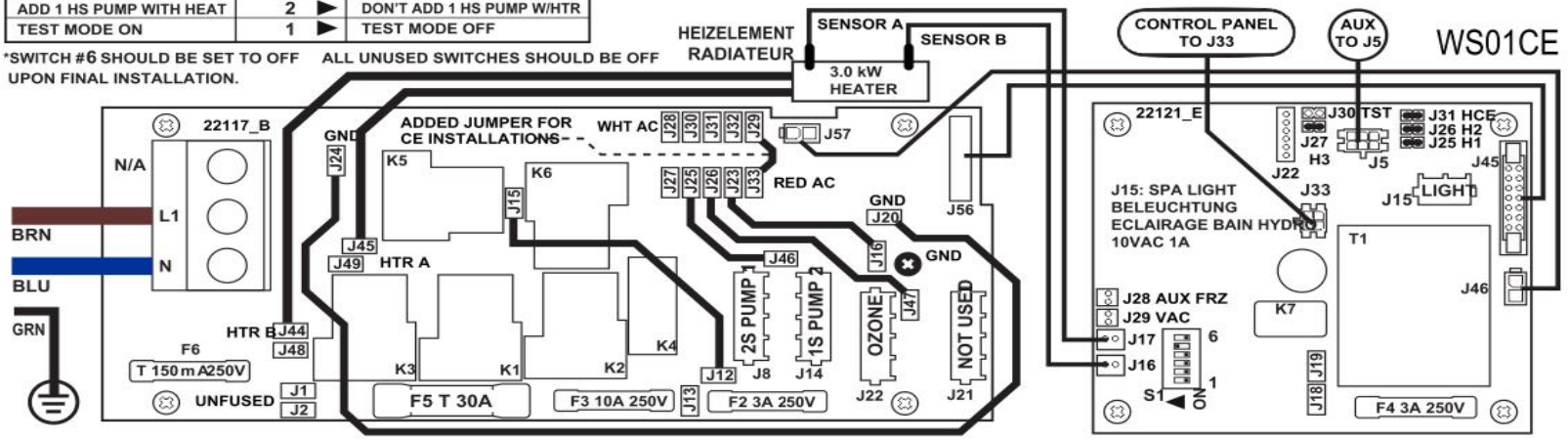
Alábbi medencékbe **1 LINE 16A** **1 LINE 32A**

- Manhattan Basic
- Ibiza
- Samoa
- Palermo Basic
- Palermo Standard
- Malaga Basic
- Challanger
- Dominika
- Cancun
- Westerbergs relax

ON POSITION	S1 SWITCH #	OFF POSITION
MEMORY RESET*	6 ►	STORE SETTINGS*
SPECIAL AMPERAGE RULE ON	◄ 5	SPECIAL AMPERAGE RULE OFF
ADD 4 HS PUMPS WITH HEAT	4 ►	DON'T ADD 4 HS PUMPS W/HTR
ADD 2 HS PUMPS WITH HEAT	3 ►	DON'T ADD 2 HS PUMPS W/HTR
ADD 1 HS PUMP WITH HEAT	2 ►	DON'T ADD 1 HS PUMP W/HTR
TEST MODE ON	1 ►	TEST MODE OFF

*SWITCH #6 SHOULD BE SET TO OFF UPON FINAL INSTALLATION.

ALL UNUSED SWITCHES SHOULD BE OFF



BALBOA water group

1 Phase (Line) Connection to 1x16A (minimum)

1 Phase (Line) Connection to
1x25A (optimum)